

Figure 5-22. Climate files assigned to AnnAGNPS cells based on the iso-pluvial lines of Ward Creek watershed.

For the General Creek and Upper Truckee watersheds, a slightly different approach was used to adjust the timing of snow and rainfall runoff events. Using a 30-year period of mean-daily maximum and minimum temperature data for the Daggett Pass and Glenbrook climate stations, lapse rates were calculated for each day of the year. This was done by taking the average between the average daily maximum and the average daily minimum, and then dividing by the difference in elevation between the stations (930 feet). These data were plotted (Figure 5-24), and the average value during days of below freezing was calculated to be 8.4 degrees F per 1000 feet.

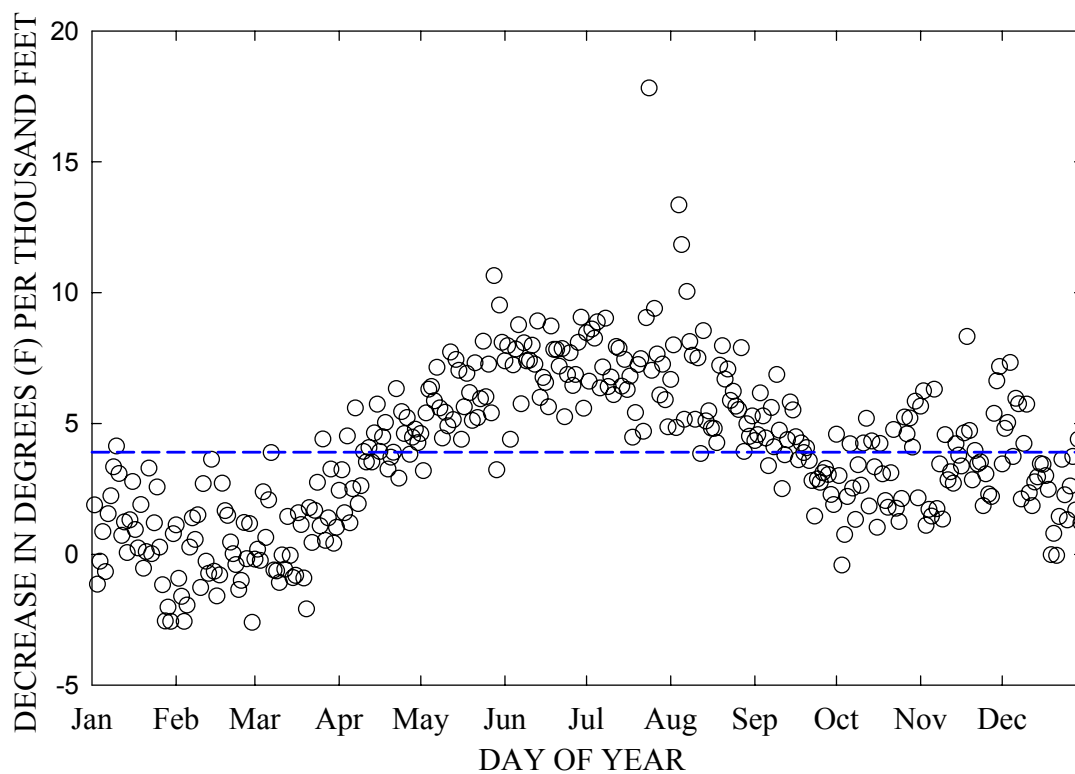


Figure 5-23. Average daily temperature lapse rate between Ward and Tahoe City climate station for Ward Creek watershed.

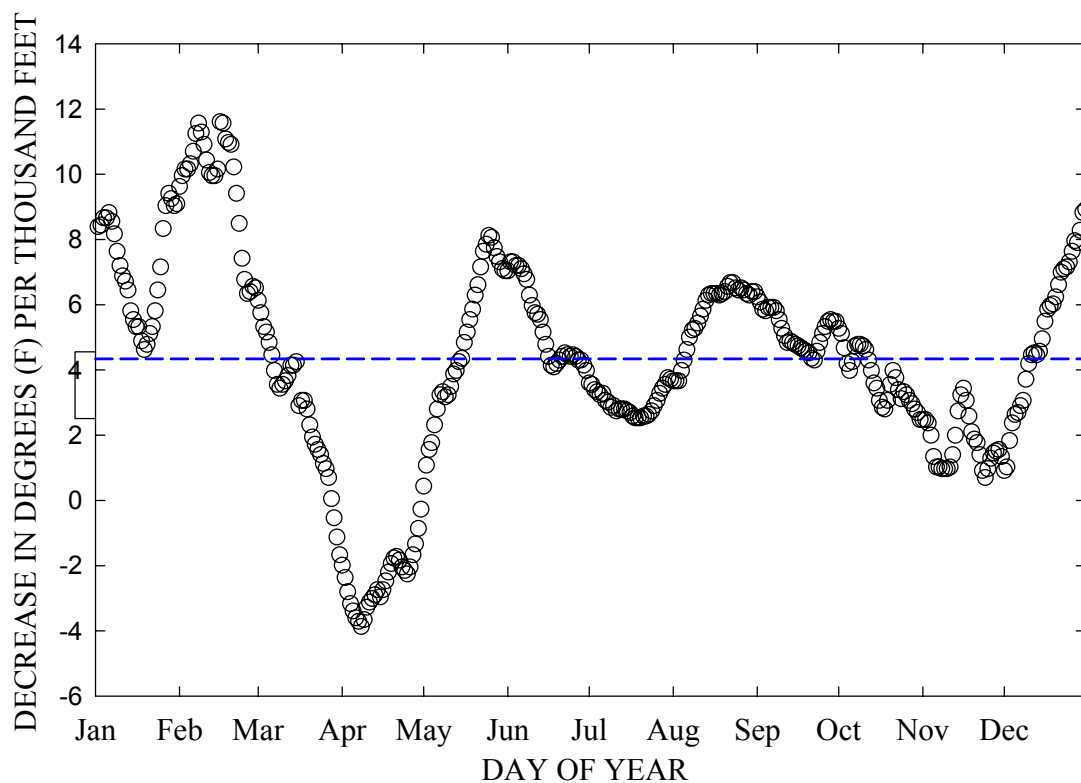


Figure 5-24. Average daily temperature lapse rate between Daggett Pass and Glenbrook climate stations for General Creek and Upper Truckee River watersheds.

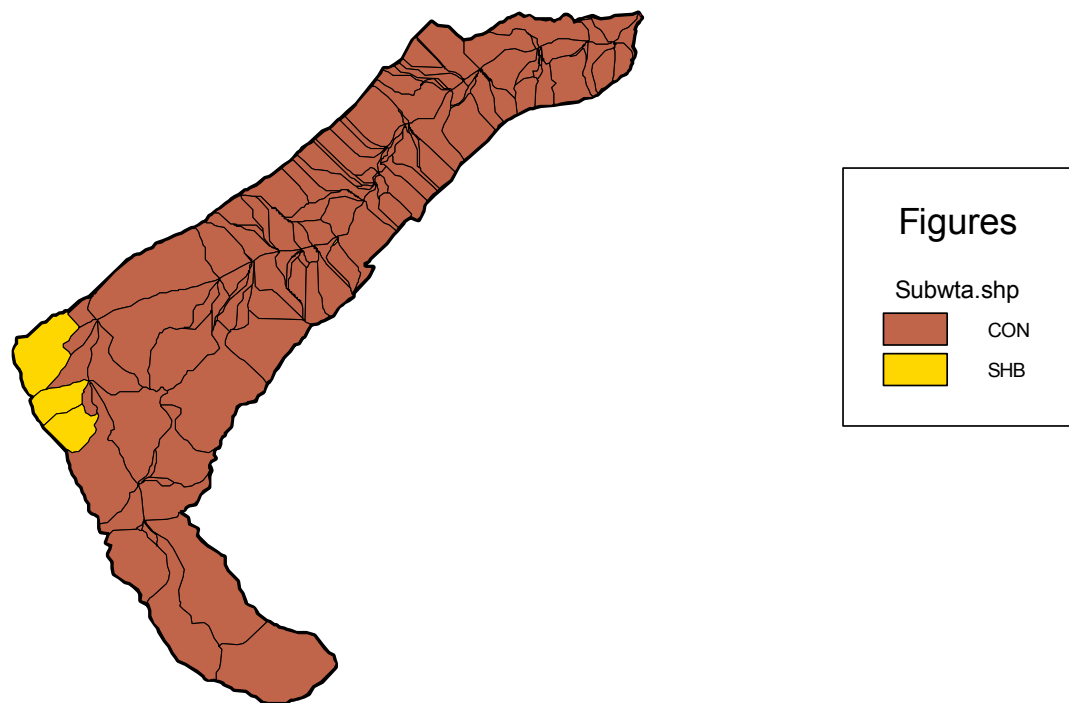


Figure 5-25. Landuse assigned to each AnnAGNPS cell for General Creek watershed. See Table 5-4 for definition of symbols.

5.2.5 Landuse Data

Information pertaining to the landuse of the watershed can be defined for those areas that have a direct impact on runoff and sediment loadings. This information can be defined for best management practices (BMPs) and the assignment of SCS runoff curve numbers associated with specific landuses. The type of landuse assigned to each AnnAGNPS cell was determined using the AGNPS Arcview interface procedure. This procedure assigned a landuse to each cell based on the predominate landuse from the landuse GIS layer and the subwatershed GIS layer associated with the General Creek (Figure 5-25), Upper Truckee River (Figure 5-26), and Ward Creek (Figure 5-27) watersheds, respectively.

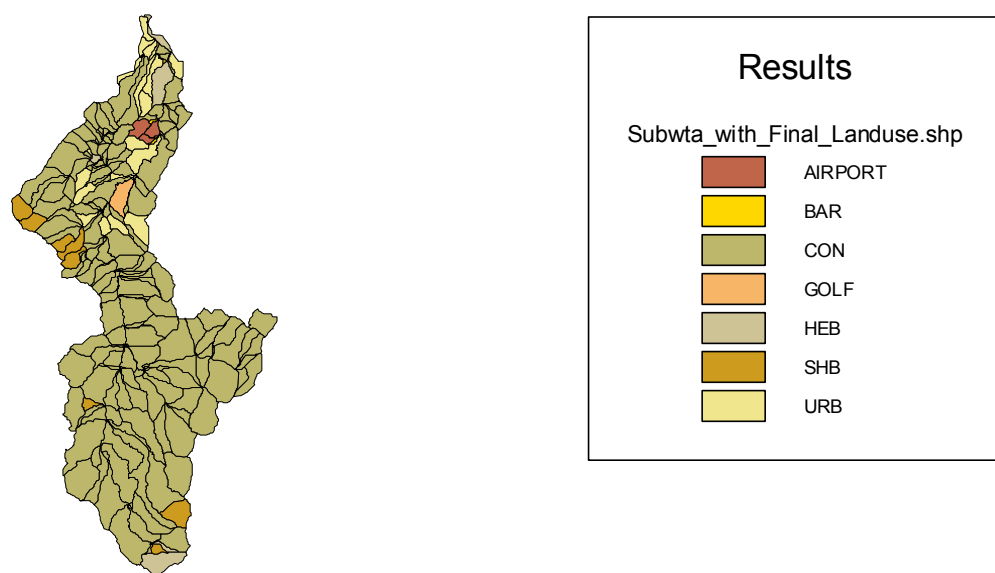


Figure 5-26. Landuse assigned to each AnnAGNPS cell for Upper Truckee River watershed. See Table 5-4 for definition of symbols.

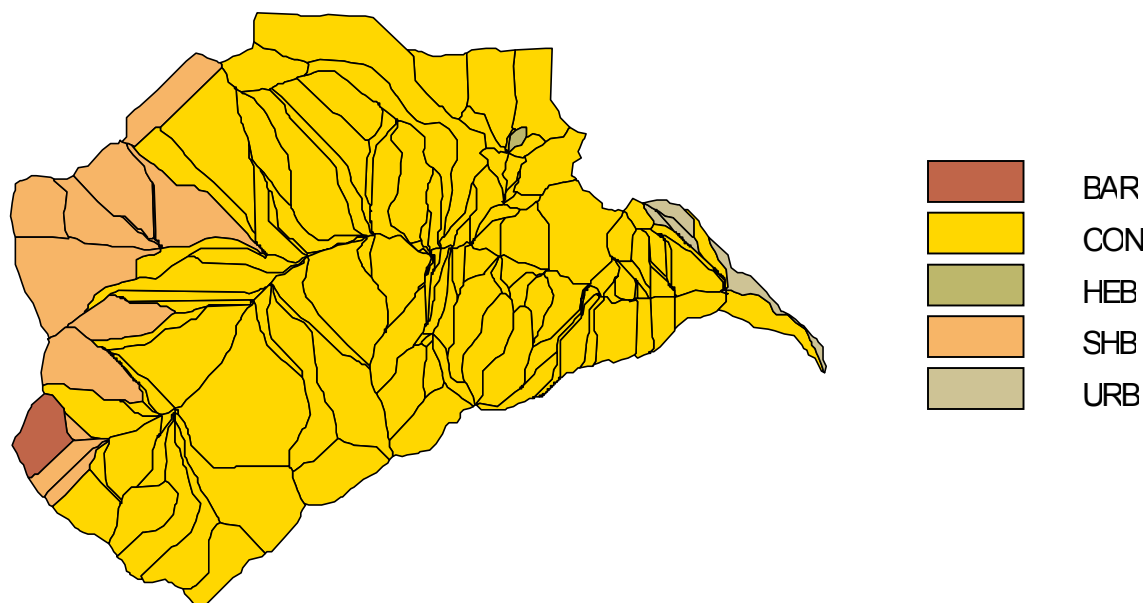


Figure 5-27. Landuse assigned to each AnnAGNPS cell for Ward Creek watershed. See Table 5-4 for definition of symbols.